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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,528	12/19/2003	Jim Recknagel	27475/05250	1527	
24024 7590 02/02/2007 CALFEE HALTER & GRISWOLD, LLP 800 SUPERIOR AVENUE			EXAMINER		
			GALL, LLOYD A		
SUITE 1400 CLEVELAND, O	H 44114		ART UNIT PAPER NUMBER		
ODB VEDICID, O	** * * * * * *		3676	·	
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATÉ	DELIVERY MODE		
3 MONT		02/02/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Applic	cation No.	Applicant(s)			
Office Action Summary		7,528	RECKNAGEL ET	RECKNAGEL ET AL.		
		iner	Art Unit			
	Lloyd A	A. Gall	3676			
The MAILING DATE of this comp	nunication appears on	the cover sheet w	vith the correspondence a	ddress		
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH  - Extensions of time may be available under the provi after SIX (6) MONTHS from the mailing date of this  - If NO period for reply is specified above, the maximu  - Failure to reply within the set or extended period for Any reply received by the Office later than three mo earned patent term adjustment. See 37 CFR 1.704	E MAILING DATE OF sions of 37 CFR 1.136(a). In n communication. Important the statutory period will apply arreply will, by statute, cause the nths after the mailing date of this after the mailing date of the mailing	THIS COMMUNI to event, however, may a and will expire SIX (6) MOI e application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).			
Status						
<ul> <li>1) Responsive to communication(s</li> <li>2a) This action is FINAL.</li> <li>3) Since this application is in condiction closed in accordance with the present the present the second s</li></ul>	2b)⊠ This action ion for allowance exc	is non-final. ept for formal mat		ne merits is		
Disposition of Claims						
4) ☐ Claim(s) 1-21 is/are pending in to 4a) Of the above claim(s) 13 and 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 and 15-21 is/are reference of the claim(s) is/are objected to 8) ☐ Claim(s) are subject to reference of the claim(s)	<u>14</u> is/are withdrawn f ejected. o.		<b>1</b> .			
Application Papers						
9)☐ The specification is objected to b 10)☒ The drawing(s) filed on 24 July 2 Applicant may not request that any of Replacement drawing sheet(s) inclu 11)☐ The oath or declaration is objected	006 is/are: a)⊠ acce be be be a section to the drawing ( ding the correction is rec	(s) be held in abeya quired if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 (	OFR 1.121(d).		
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Revie  3) Information Disclosure Statement(s) (PTO/SB/		Paper No(5) Notice of	Summary (PTO-413) (s)/Mail Date Informal Patent Application			
Paper No(s)/Mail Date	•	6) 🔲 Other:	·			

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## **DETAILED ACTION**

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Setterberg.

Setterberg teaches a coupler lock including a lock body 2, a locking mechanism 16, an adjustable means including a shaft 6 having plural recesses with vertical and tapered edges, a spring-biased 12 locking plate 10 having a notch at 13 engaged by a cam 15, the cam includes an unlabeled groove in figure 3 and a projection 14 for engaging the notch at 13. With respect to claim 5, line 4, it is noted that an object is <u>not</u> being positively claimed. Further, with respect to claim 5, line 5, the lock of Setterberg is capable of being locked to an object, such as having the object provided with an opening to be received between the heads 1 and 2 of Setterberg. Accordingly, the adjustable shaft 6 of Setterberg <u>allows</u> the lock body to move in two directions relative to any object which includes such an opening to receive the shaft, that is, the shaft 6 may be inserted in either direction through such object opening, and the lock body 2 may be moved in either direction to engage the shaft, depending on which direction relative to the object opening the shaft is inserted. The shaft in claims 5-10 is not being claimed as movable in two insertion directions relative to the lock body.

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Claims 1, 3-12 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Heyer.

Heyer teaches a lock body 1, an adjustable means including a shaft having a narrow end 13, flange end 12 and plural recesses with vertical 15 and tapered 16 edges, a locking mechanism 10 to receive a key, plural spring-biased 20 locking plates 4 having openings 17 to engage the shaft recesses, wherein the locking plates allow movement of the shaft in only one direction when the plates engage the recesses. With respect to claim 8, the key defines a cam which engages the locking mechanism 10 and the notches 21, 23 of the locking plates, the key as seen in fig. 15 defines a cam having projections and grooves defined by the key ridges (key bitting). With respect to claim 1, lines 7-8, the shaft of Heyer is capable of insertion into an opening of an object in both directions of insertion into the object, and then locked by the lock body 1. With respect to independent claims 1, 5 and 17, shaft is <u>not</u> claimed as insertable in both directions relative to the lock body, and the shaft of Heyer is capable of insertion in two directions relative to an object, which object also is not being positively claimed.

Claims 1, 3-9, 18, 20 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Casey (227).

It is first noted that an object is not being positively claimed. Casey teaches an adjustable lock including a lock body 27, a locking mechanism 29, two locking plates 37, 38, two shafts 24, 26 having an end which may be regarded as narrow, and a second, flanged end 24', 26', recesses 24", 26" along the shafts, wherein the shafts may be inserted in either direction through the lock body, even if the flanges 24', 26' will extend

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in a different direction relative to the lock body, since they would still be capable of engaging an object. With respect to claims 8 and 9, Casey also teaches a cam 33 in fig. 8 engageable with the locking mechanism 29 by the projection 30 in fig. 8 which engages a groove in the cam, and also engageable with a locking plate 37 in fig. 8 by the cam radial projection 33'. With respect to claim 18, it is also noted that a hitch ball and coupler latch are not being positively claimed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Setterberg in view of Heyer.

Heyer teaches a locking plate 4 with an opening 17 with a peripheral edge to receive a shaft having recesses 15, 16. It would have been obvious to substitute a locking plate with an opening to receive the shaft for the locking plate 10 of Setterberg, in view of the teaching of Heyer, the motivation being to provide a greater surface area of contact with the shaft recess of Setterberg.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Heyer in view of Freck.

Heyer has been discussed above. Freck teaches lock components of stainless steel in column 3, line 23. It would have been obvious to form components of Heyer of stainless

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steel, in view of the teaching of Freck, the motivation being to provide corrosion resistance.

Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heyer in view of Winner or Hampton et al.

In fig. 2, Winner teaches an element 51 which may be regarded as a seal around a portion of a lock body 49, or a coating around the shaft 65. Hampton teaches a seal 46 around a lock body, and a coating 34 around a shaft 14. It would have been obvious to provide a seal and coating with the lock body and shaft of Heyer, in view of the teaching of Winner or Hampton et al, the motivation being to provide corrosion resistance to the lock body and shaft of Heyer.

Claims 2 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Casev in view of Freck.

Freck teaches lock components of stainless steel in column 3, line 23. It would have been obvious to form components of Casey of stainless steel, in view of the teaching of Freck, the motivation being to provide corrosion resistance.

Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Casey in view of Winner or Hampton et al.

In fig. 2, Winner teaches an element 51 which may be regarded as a seal around a portion of a lock body 49, or a coating around the shaft 65. Hampton teaches a seal 46 around a lock body, and a coating 34 around a shaft 14. It would have been obvious to provide a seal and coating with the lock body and shaft of Casey, in view of the teaching

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of Winner or Hampton et al, the motivation being to provide corrosion resistance to the lock body and shaft of Casey.

Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lloyd A. Gall whose telephone number is 571-272-7056.

The examiner can normally be reached on Monday-Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LG LG January 30, 2007 Lioyd A. Gali Primary Examiner